This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-13. (Canceled)

- 14. (Currently Amended) A process of producing an adhesive composition comprising:
 - a) reacting propylene and at least one comonomer selected from the group consisting of ethylene and C_4 to C_{20} α -olefins, under polymerization conditions in the presence of a metallocene catalyst capable of incorporating the propylene into isotactic or syndiotactic sequences, in at least one reactor to produce a first copolymer having at least 65 mole % propylene; and
 - b) optionally, adding a tackifier; wherein the first copolymer has a melting point of 25 to 120 °C, a melt index (MI) from about 7 dg/min 78 dg/min to about 3000 dg/min according to ASTM D 1238 (B) at 190°C, and wherein the MFR, as measured according to ASTM D 1238 at 230°C, of the first copolymer is greater than 250 dg/min.
- 15. (Previously Presented) The process of claim 14 further comprising:
 - c) reacting propylene and at least one comonomer selected from the group consisting of ethylene and C_4 to C_{20} α -olefins, under polymerization conditions in the presence of a metallocene catalyst capable of incorporating the propylene into isotactic or syndiotactic sequences, in another reactor or subsequent reactors, to produce a second copolymer having at least 65 mol % propylene;
 - d) combining the contents of the first reactor with the contents of the subsequent reactors to form a blend, and;

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- e) recovering the blend of step (d), and; optionally adding a tackifier at any time in the process.
- 16. (Previously Presented) The process of claim 14 wherein the first copolymer comprises a semi-crystalline copolymer of propylene and at least one comonomer selected from the group consisting of ethylene and C_4 to C_{20} α -olefins, having a propylene content of greater than 73 mole percent.

17-40. (Canceled)

- 41. (Withdrawn-Currently Amended) A process for making a degraded adhesive composition, comprising:
 - (a) providing a first polymer composition having an MFR less than 250 dg/min. at 230NC. 230°C and comprising a random copolymer produced by copolymerizing propylene and at least one of ethylene or alpha-olefin having 20 or less carbon atoms, the random copolymer having a crystallinity at least about 2% and no greater than about 65% derived from stereoregular polypropylene sequences and a melting point of from about 25NC 25°C to about 105NC 105°C; and
 - (b) contacting the first polymer composition, in the melted state, with a free radical initiator, to provide a second polymer composition, where the second polymer composition has an MFR greater than 250 dg/min. at 230NC230°C.
- 42. (Withdrawn-Currently Amended) The process of claim 41 in which the first polymer composition has an MFR less than 50 dg/min. 230NC230°C prior to contacting the first polymer composition with the free radical initiator.
- 43. (Withdrawn) The process of claim 41 in which the free radical initiator comprises a peroxide.

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- 44. (Withdrawn) The process of claim 41 in which the free radical initiator comprises 2,5-bis(tert-butylperoxy)-2,5-dimethyl-hexane.
- 45. (Withdrawn) The process of claim 41 in which the free radical initiator comprises a diazo compound.
- 46. (Withdrawn) The process of claim 41 in which the first polymer composition or the second polymer composition, or both, additionally comprises a crystalline polymer blended with the random copolymer, wherein the crystalline polymer has a melting point greater than about 130°C.
- 47. (Withdrawn) The process of claim 41 in which the first polymer composition or the second polymer composition, or both, additionally comprises a crystalline polymer blended with the random copolymer, wherein the crystalline polymer comprises polypropylene or a copolymer comprising propylene units and at least one comonomer selected from the group consisting of ethylene or C4-C20 alphaolefins, the copolymer having a comonomer content of less than about 15 mole%.
- 48. (Withdrawn) The process of claim 41 in which the first polymer composition is fully melted in the presence of the free radical initiator.
- 49. (Withdrawn) The process of claim 41 in which an effective amount of free radical initiator is contacted with the first polymer composition.
- 50. (Withdrawn) The process of claim 41 in which the free radical initiator is present in an amount sufficient to increase the MFR of the first polymer composition by at least 100% to form the second polymer composition.

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- 51. (Previously Presented) The process of claim 14 further comprising the step of adding a tackifier at any time in the process.
- 52. (Previously Presented) The process of claim 14 wherein the first copolymer has propylene pentad sequences and wherein at least 40% of the propylene pentad sequences are in isotactic or syndiotactic orientations.
- 53. (Previously Presented) The process of claim 14 wherein the first copolymer has propylene pentad sequences and wherein more than 80% of the propylene pentad sequences are in isotactic orientation.
- 54. (Previously Presented) The process of claim 15 wherein the second copolymer has propylene pentad sequences and wherein at least 40% of the propylene pentad sequences are in isotactic or syndiotactic orientations.
- 55. (Previously Presented) The process of claim 15 wherein the second copolymer has propylene pentad sequences and more than 80% of the propylene pentad sequences are in isotactic orientation.
- 56. (Previously Presented) A process of producing an adhesive composition comprising:
 - a) reacting propylene and at least one comonomer selected from the group consisting of ethylene and C₄ to C₂₀ α-olefins, under polymerization conditions in the presence of a metallocene catalyst capable of incorporating the propylene into isotactic or syndiotactic sequences, in at least one reactor to produce a first copolymer having at least 65 mole % propylene and wherein at least 40% of the propylene pentad sequences are in isotactic or syndiotactic orientations; and
 - b) optionally, adding a tackifier;

wherein the first copolymer has a melt index (MI) from about 7 dg/min to about 3000 dg/min according to ASTM D 1238 (B) at 190°C, and wherein the MFR, as measured according to ASTM D 1238 at 230°C, of the first copolymer is greater than 250 dg/min.

- 57. (Previously Presented) The process of claim 56 wherein more than 80% of the propylene pentad sequences are in isotactic orientation.
- (Previously Presented) The process of claim 56 wherein the first copolymer comprises a semi-crystalline copolymer of propylene and at least one comonomer selected from the group consisting of ethylene and C_4 to C_{20} α -olefins, having a propylene content of greater than 73 mole percent.
- 59. (New) The process of claim 14, wherein the first copolymer has a melting point of 60 to $120 \, ^{\circ}$ C.
- 60. (New) The process of claim 14, wherein the first copolymer has a melt index of 78 to 630 dg/min.